



US006316002B1

(12) **United States Patent**  
Liu et al.

(10) Patent No.: **US 6,316,002 B1**  
(45) Date of Patent: **Nov. 13, 2001**

(54) **GERMINATION ACTIVATED RED  
GANODERMA LUCIDUM SPORES AND  
METHOD FOR PRODUCING THE SAME**

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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/524,508

(22) Filed: Mar. 13, 2000

#### Related U.S. Application Data

(60) Provisional application No. 60/158,377, filed on Oct. 12,  
1999.

(51) Int. Cl.<sup>7</sup> ..... A61K 35/00; A61K 35/78

(52) U.S. Cl. .... 424/195.15; 424/780

(58) Field of Search ..... 424/195.15, 780

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(57) **ABSTRACT**

The present invention describes a method for germination  
activating spores of red *Ganoderma lucidum* to produce  
bioactive substances which has medicinal effects on patients  
with immunological disorders, cancer, AIDS, hepatitis,  
diabetes, and cardiovascular diseases, and can prevent or  
inhibit free radical oxidation and hepatotoxic effects. The  
method can be subdivided into three stages. At the first stage,  
a germination activation method is introduced which  
includes soaking the spores in a solution to induce  
germination, and placing the germination treated spores in a  
culture box to induce the synthesis of bioactive substances  
and softening of the cell walls of the spores. At the second  
stage, sporoderm-broken ganoderma spores are collected by  
treating the episporia with cell wall breaking enzymes  
and/or mechanical force. At the last stage, the bioactive  
substances are extracted from the sporoderm-broken spores  
by drying at low temperature followed by extraction.

22 Claims, No Drawings